This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

- 1-13. (canceled)
- 14. (currently amended) A device for vapor deposition of vertically aligned regions of a substrate, comprising:
- a melting crucible having a crucible heater for melting and vaporizing material poured into the melting crucible;
- an elongate nozzle pipe placed from above the melting crucible for deflecting the vapor flowing out of the crucible horizontally toward the substrate, the nozzle pipe comprising:
 - a lateral surface;
 - a horizontal vapor outlet defined by a plurality of holes therein in the lateral surface; and
 - a pipe heater which is independent of the crucible heater;
- a plurality of reflectors concentrically enclosing the nozzle pipe, the reflectors comprising a vapor passage window in the region of the vapor outlet; and
- a vaporizer housing externally enclosing the reflectors, the vaporizer housing comprising:
 - a plurality of external cooling pipes extending substantially the elongate length of the nozzle pipe, wherein at least a portion each of the external cooling pipes is positioned substantially parallel to a longitudinal axis of the elongate nozzle pipe; and
 - an exhaust opening, wherein the exhaust opening is in the region of the vapor passage window and the vapor outlet.
- 15. (previously presented) The vapor deposition device of Claim 14, further comprising a temperature sensor in the region of the melting crucible and a temperature sensor in the region of the nozzle pipe for regulating the output of the crucible heater and the pipe heater, respectively.

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16. (previously presented) The vapor deposition device of Claim 14, wherein the nozzle pipe engages the melting crucible with a diameter taper on its lower end.

- 17. (previously presented) The vapor deposition device of Claim 23, wherein the nozzle pipe further comprises a taper shaped like a truncated cone on its upper end and wherein the sealing mechanism is a plunger, having an adjustable height for selective engagement with the coaxial filling opening from above.
- 18. (previously presented) The vapor deposition device of Claim 14, wherein the cooling pipes are aligned in a meander shape in the region of the nozzle pipe and have long pipe sections running in a lengthwise direction along the vaporization device, the cooling pipes are alternately connected to one another above and below by a short pipe section in each case.
- 19. (previously presented) The vapor deposition device of Claim 14, wherein the cooling pipes lead in a spiral shape around the vaporizer housing in the region of the melting crucible.
- 20. (previously presented) The vapor deposition device of Claim 14, wherein the vapor outlet in the nozzle pipe is formed by multiple holes positioned over one another.
- 21. (previously presented) The vapor deposition device of Claim 14, wherein the melting crucible and the nozzle pipe are made of graphite.
- 22. (previously presented) The vapor deposition device of Claim 14, wherein the nozzle pipe is heated a predetermined temperature gradient above the temperature of the crucible and wherein the predetermined temperature gradient is about 200 degrees Celsius.
- 23. (previously presented) The vapor deposition device of Claim 14, further comprising a coaxial filling opening positioned substantially on an upper end of the nozzle pipe and a sealing mechanism positioned above the filling opening for selective sealing of the filling opening.

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24. (previously presented) The vapor deposition device of Claim 14, wherein the material is metallic.